

LoRaWAN 3-in-1 Sensor
Temp / Humidity / O2

Indoor Air Quality

SKU: AS-107



The Atomsenses AS-107 is a LoRaWAN electrochemical-type gas Oxygen (O2) detecting sensor with a high sensitivity to low concentrations of detected gas, high selectivity, and a stable baseline.

The sensor has an Ultra-low Power design and smart firmware, allowing it to last up to 5 years with three AA-type batteries. It can transmit data over long distances to any brand of LoRaWAN gateway.



LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market



Up to 5 years powerful battery

Ultra-low power sensing technology with Ultra-low power wireless technology allowing the sensor to last up to 5 years with 02 x AA batteries



Industrial Grade High Accuracy

Advanced ultrasonic sensor to deliver high accuracy and stable measurement



Supports ODM & OEM



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Specification

Wireless Transmission		
Technology		LoRaWAN®
Frequency		CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power		16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity		-137dBm @300bps
Mode		OTAA/ABP Class A
Sensors		
Temperature	Temperature Range	-20°C to + 70°C
	Accuracy	0°C to + 70°C (+/- 0.3°C), -20°C to 0°C (+/- 0.6°C)
	Resolution	0.1°C
Humidity	Humidity Range	0% to 100% RH
	Accuracy	10% to 90% RH (± 3%), below 10% and above 90% RH (± 5%)
	Resolution	0.5% RH
O ₂ /Oxygen	O ₂ Range	0 ~ 30%vol
	Accuracy	±5%FS
	Resolution	0.01%vol
Physical Characteristics		
Power Supply		2 × 2700 mAh ER14505 Li-SOCl ₂ Replaceable Batteries
Ingress Protection		IP30
Dimension		98 × 98 × 29.5 mm
Installation		Wall Mounting